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What you're solving for

Calculating the value of the combination "9 choose 2", denoted as $9C2$.

What's given in the problem

- Combination formula: $nCr = \frac{n!}{r!(n-r)!}$
- $n = 9$
- $r = 2$

How to solve

Apply the combination formula with the given values of n and r.

Step 1

Substitute the values of n and r into the combination formula.

$$9C2 = \frac{9!}{2!(9-2)!}$$

Step 2

Simplify the expression inside the factorial.

$$9C2 = \frac{9!}{2!7!}$$

Step 3

Expand the factorials.

$$9C2 = \frac{9 \times 8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1}{(2 \times 1)(7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1)}$$

Step 4

Cancel out the common terms.

$$9C2 = \frac{9 \times 8}{2 \times 1}$$

Step 5

Simplify the expression.

$$9C2 = \frac{72}{2}$$

Step 6

Calculate the final value.

$$9C2 = 36$$

Solution

The value of $9C2$ is 36.

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Find the Number of Possibilities 9 choose 2
Evaluate **9C2** C 2 9 using the formula nCr=n!(n−r)!r! C r n = n ! (n - r) ! r ! . 9!(9−2)!2! 9 ! (9 - 2) ! 2 ! Step 2. Subtract 2 2 from 9 9 .

People also ask
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MathCelebrity
https://www.mathcelebrity.com › permutation
9 Combinations of 2
9C2. Combination Definition: **A unique order or arrangement**. Combination Formula: nCr = n! r!(n - r)!. where n is the number of items r is the unique ...

Algebra Homework Help
http://www.algebra.com › Permutations
SOLUTION: The value of 9C2
9C2 = 9!/(2!7!) = 9%2A8%2F%282%2A1%29 = 36 Casio fx-115 ES plus **is** a relatively inexpensive calculator that **does** Combinations and Permutations.

Quora
2 answers · 5 years ago
What is meant by 9C2 in a chess board?
9C2 (sometimes written (92) (9 2)) is **the number of ways to choose two of nine items**, without regard for the order in which they are chosen.
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If I am given 9 digits to work with, how many ... 22 answers Aug 28, 2014
How many cubes **are** on a chess board? 4 answers Feb 11, 2017
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Calculator Soup
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Combinations Calculator (nCr)
The Combinations Calculator **will** find the number of possible combinations that **can** be obtained by taking a sample of items from a larger set.

Mathematics Stack Exchange
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What does 9P2 mean, and how would one solve it?
Feb 6, 2015 — 9P2 is **the number of permutations of the selections of 2 items from 9 distinct items**. That is, the number of ordered selections of 2 items ...
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Studocu
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[Solved] Find the value of the combination 9c2 - Statistics I
In your case, you want to find the value of 9c2 . Here, n = 9 and r = 2 . Substituting these values into the formula, we get: **9c2 = 9! / [2! (9-2)!]**

YouTube · MySecretMathTutor
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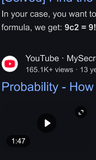
Probability - How to compute combinations using a calculator


This video describes how to use the TI-30 to compute combinations Remember to use the second function button in order to access combinations ...

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Factorials, Permutations and Combinations on a Casio fx ...

In this video I want to show you how to find factorials permutations and combinations on an fx991 ex class with calculator by Casio.

4 key moments in this video
Missing: ~~9e2~~ | Show results with: 9c2

Calculator.net
https://www.calculator.net › math
Permutation and Combination Calculator
This free calculator **can** compute the number of possible permutations and combinations when selecting r elements from a set of n elements.

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